



# 70-765<sup>Q&As</sup>

Provisioning SQL Databases

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### QUESTION 1

You administer a Microsoft SQL Server 2014 instance named SQL2012 that hosts an OLTP database of 1 terabyte in size. The database is modified by users only from Monday through Friday from 09:00 hours to

17:00 hours. Users modify more than 30 percent of the data in the database during the week. Backups are performed as shown in the following schedule:

Type	Frequency
Full	Sunday at 20:00 hours
Differential	Monday through Friday at 20:00 hours
Log	Monday through Friday between 08:00 hours and 18:00 hours

The Finance department plans to execute a batch process every Saturday at 09:00 hours. This batch process will take a maximum of 8 hours to complete.

The batch process will update three tables that are 10 GB in size. The batch process will update these tables multiple times.

When the batch process completes, the Finance department runs a report to find out whether the batch process has completed correctly.

You need to ensure that if the Finance department disapproves the batch process, the batch operation can be rolled back in the minimum amount of time.

What should you do on Saturday?

- A. Perform a differential backup at 08:59 hours.
- B. Record the LSN of the transaction log at 08:59 hours. Perform a transaction log backup at 17:01 hours.
- C. Create a database snapshot at 08:59 hours.
- D. Record the LSN of the transaction log at 08:59 hours. Perform a transaction log backup at 08:59 hours.
- E. Create a marked transaction in the transaction log at 08:59 hours. Perform a transaction log backup at 17:01 hours.
- F. Create a marked transaction in the transaction log at 08:59 hours. Perform a transaction log backup at 08:59 hours.

Correct Answer: C

References: <https://docs.microsoft.com/en-us/sql/relational-databases/databases/database-snapshots-sql-server>

### QUESTION 2



A Microsoft SQL Server instance has a database named Employees. The database contains information about employees including their salary.

You must create a custom system message as an alert when an error is raised.

You need to create the custom message in the sys.messages table.

Which argument insp\_addmessage should you configure?

- A. @lang
- B. @with\_log
- C. @replace
- D. @severity

Correct Answer: D

The following example adds a custom message to sys.messages.

```
USE master;
```

```
GO
```

```
EXEC sp_addmessage 50001, 16,
```

```
N'\Percentage expects a value between 20 and 100.
```

```
Please reexecute with a more appropriate value.\';
```

```
GO
```

Syntax:

```
sp_addmessage [ @msgnum= ] msg_id , [ @severity= ] severity , [ @msgtext= ] '\msg\'
```

```
[ , [ @lang= ] '\language\' ]
```

```
[ , [ @with_log= ] { '\TRUE\' | '\FALSE\' } ]
```

```
[ , [ @replace= ] '\replace\' ]
```

References:

<https://docs.microsoft.com/en-us/sql/relational-databases/system-stored-procedures/sp-addmessage-transact-sql?view=sql-server-2017>

### QUESTION 3

Note: This question is part of a series of questions that use the same or similar answer choices. An answer choice may be correct for more than one question in the series. Each question is independent of the other questions in this series.

Information and details provided in a question apply only to that question.



You have a virtual machine (VM) in Microsoft Azure, which has a 2 terabyte (TB) database.

Microsoft SQL Server backups are performed by using Backup to URL.

You need to provision the storage account for the backups while minimizing costs.

Which storage option should you use?

- A. Premium P10 disk storage
- B. Premium P20 disk storage
- C. Premium P30 disk storage
- D. Standard locally redundant disk storage
- E. Standard geo-redundant disk storage
- F. Standard zone redundant blob storage
- G. Standard locally redundant blob storage
- H. Standard geo-redundant blob storage

Correct Answer: G

A URL specifies a Uniform Resource Identifier (URI) to a unique backup file. The URL is used to provide the location and name of the SQL Server backup file. The URL must point to an actual blob, not just a container. If the blob does not

exist, it is created. If an existing blob is specified, BACKUP fails, unless the "WITH FORMAT" option is specified to overwrite the existing backup file in the blob.

LOCALLY REDUNDANT STORAGE (LRS) makes multiple synchronous copies of your data within a single datacenter.

#### QUESTION 4

User report that a query takes a long time to execute. The query has the following wait statistics.

```
<WaitStats>
  <Wait WaitType="MEMORY_ALLOCATION_EXT" WaitTimeMs="186" WaitCount="112046" />
  <Wait WaitType="PAGEIOLATCH_SH" WaitTimeMs="37001" WaitCount="183" />
  <Wait WaitType="SOS_SCHEDULER_YIELD" WaitTimeMs="399" WaitCount="12321" />
  <Wait WaitType="WRITELOG" WaitTimeMs="1632" WaitCount="627" />
  <Wait WaitType="IO_COMPLETION" WaitTimeMs="100287" WaitCount="5300" />
  <Wait WaitType="PAGEIOLATCH_UP" WaitTimeMs="59652" WaitCount="21027" />
  <Wait WaitType="PAGEIOLATCH_EX" WaitTimeMs="1116329" WaitCount="1840528" />
</WaitStats>
```

Which resource causes the issue?

- A. processor



- B. disk
- C. blocking
- D. network

Correct Answer: B

PAGEIOLATCH Wait time and WaitCount are both high.

One of the most common wait type seen on SQL Server and definitely one that causes a lot of troubles to less experienced database administrators is the PAGEIOLATCH\_SH wait type. This is one of those wait types that clearly indicates one

thing, but which background and potential causes are much subtler and may lead to erroneous conclusions and worse, incorrect solutions

The Microsoft definition of this wait type is:

Occurs when a task is waiting on a latch for a buffer that is in an I/O request. The latch request is in Shared mode. Long waits may indicate problems with the disk subsystem.

References: [https://www.sqlshack.com/handling-excessive-sql-server-pageiolatch\\_sh-wait-types/](https://www.sqlshack.com/handling-excessive-sql-server-pageiolatch_sh-wait-types/)

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#### QUESTION 5

A company runs Microsoft SQL Server 2017 in an on-premises environment. The databases are memory-optimized.

An integrity check of a database has failed.

You need to ensure that the data is healthy and passes an integrity check.

What should you do?

- A. Run the checktable Transact-SQL statement.
- B. Clear the buffer of the database.
- C. Restore from a verified backup.
- D. Run the cleantable Transact-SQL statement.

Correct Answer: C

To verify the integrity of the on-disk checkpoint files, perform a backup of the MEMORY\_OPTIMIZED\_DATA filegroup.

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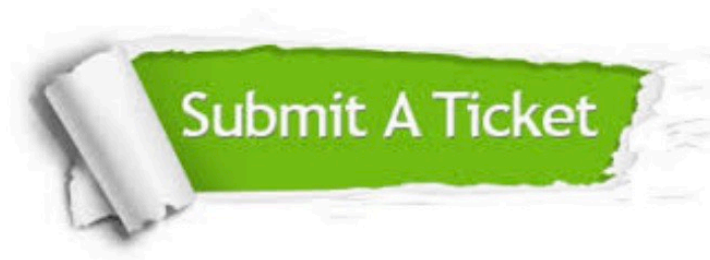
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